

chain nodes :

1 2 3 4 5 6 9 10 11 12 13

ring nodes :

7 8 14

chain bonds :

1-2 1-11 2-3 3-9 4-12 4-9 5-13 5-12 6-8 6-13 9-10

ring bonds :

7-14 7-8 8-14

exact/norm bonds :

7-14 7-8 8-14

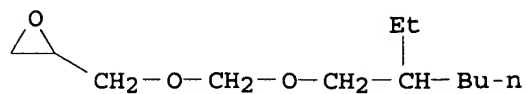
exact bonds :

1-2 1-11 2-3 3-9 4-12 4-9 5-13 5-12 6-8 6-13 9-10

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom
9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:Atom

RN 317834-64-3 REGISTRY
ED Entered STN: 29 Jan 2001
CN Oxirane, [[[(2-ethylhexyl)oxy]methoxy]methyl] - (9CI) (CA INDEX NAME)
MF C12 H24 O3
SR CA
LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

AN 2001:31593 CAPLUS
 DN 134:87667
 ED Entered STN: 12 Jan 2001
 TI Composition of anticorrosive paint comprising epoxysilane
 IN Perala, Mika; Tikkanen, Seppo
 PA Nor-Maali Oy, Finland
 SO PCT Int. Appl., 17 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C09D183-04
 ICS C08L083-04; C09D183-04; C09D163-00; C08L083-04; C08L063-00
 CC 42-9 (Coatings, Inks, and Related Products)
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001002506	A1	20010111	WO 2000-FI613	20000704
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	FI 105406	B1	20000815	FI 1999-1535	19990705
	EP 1210394	A1	20020605	EP 2000-944085	20000704
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	RU 2246517	C2	20050220	RU 2001-135740	20000704
PRAI	FI 1999-1535	A	19990705		
	WO 2000-FI613	W	20000704		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001002506	ICM	C09D183-04
	ICS	C08L083-04; C09D183-04; C09D163-00; C08L083-04; C08L063-00
	IPCI	C09D0183-04 [ICM,7]; C08L0083-04 [ICS,7]; C08L0083-00 [ICS,7,C*]; C09D0183-04 [ICS,7]; C09D0163-00 [ICS,7]; C08L0063-00 [ICS,7]
	IPCR	C08G0059-00 [I,C*]; C08G0059-30 [I,A]; C08G0059-32 [I,A]; C09D0163-00 [I,A]; C09D0163-00 [I,C*]; C09D0183-04 [I,A]; C09D0183-04 [I,C*]
	ECLA	C08G059/30F; C08G059/32F; C09D163/00+B4S; C09D183/04+B4+C8; C09D183/04+B4+C
FI 105406	IPCI	C09D0163-00 [ICM,7]; C09D0183-06 [ICS,7]
	IPCR	C08G0059-00 [I,C*]; C08G0059-30 [I,A]; C08G0059-32 [I,A]; C09D0163-00 [I,A]; C09D0163-00 [I,C*]; C09D0183-04 [I,A]; C09D0183-04 [I,C*]
EP 1210394	IPCI	C09D0183-04 [ICM,6]; C08L0083-04 [ICS,6]; C09D0183-04 [ICI,6]; C09D0163-00 [ICI,6]; C08L0083-04 [ICI,6]; C08L0083-00 [ICI,6,C*]; C08L0063-00 [ICI,6]
	IPCR	C08G0059-00 [I,C*]; C08G0059-30 [I,A]; C08G0059-32 [I,A]; C09D0163-00 [I,A]; C09D0163-00 [I,C*]; C09D0183-04 [I,A]; C09D0183-04 [I,C*]
RU 2246517	IPCI	C09D0183-06 [ICM,7]; C08L0083-06 [ICS,7]; C08L0083-00 [ICS,7,C*]; C09D0163-00 [ICS,7]
	IPCR	C08G0059-00 [I,C*]; C08G0059-30 [I,A]; C08G0059-32 [I,A]; C09D0163-00 [I,A]; C09D0163-00 [I,C*]; C09D0183-04 [I,C*]; C09D0183-04 [I,A]
	ECLA	C08G059/30F; C08G059/32F; C09D163/00+B4S; C09D183/04+B4+C; C09D183/04+B4+C8

AB The invention relates to a paint composition comprising a resin constituent which includes (i) a non-aromatic epoxy resin, (ii) a polysiloxane and (iii) an epoxysilane. The paint composition of the invention has an anti-corrosive effect. Thus, an epoxy polysiloxane paint prepared from a blend comprising methoxy-functional polysiloxane (Dow Corning 3074) 306, polyamide wax thickener (Crayvallac Super™) 21.3, titanium dioxide pigment 156, talcum. 30, wollastonite 54.5, feldspar filler (Siokal FF 30™) 49, glycidoxypropyltrimethoxysilane (Silquest A-187™) 50.6, and pentaerythritol tetraglycidylether (Polypox R 16™) 268.5 g, was formulated with a hardener comprising polyamide (Versamid 140™) 173, aliphatic epoxy resin (Dow DER 732™) 33.9, γ -aminopropyltriethoxysilane (Silquest A-1100™) 404, and tin catalyst (DBTL) 16.2 g, and the paint was applied on a substrate and exposed to a neutral salt fog test (SFS 3707), and had film thickness 120 μ m, tensile value changing from 14.3 MPa to 7.3 MPa, compared to 200 μ m, 12.3 MPa, and 3.5 MPa, resp., for a control film using bisphenol A epoxy resin and without epoxy silane.

ST paint anticorrosive aliph epoxy resin polysiloxane epoxysilane compn

IT Silsesquioxanes
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (Ph, di-Me polysiloxane-, methoxy-terminated, Dow Corning 3074; composition of anticorrosive paint comprising epoxysilane and aliphatic epoxy resin)

IT Epoxy resins, uses
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (aliphatic; composition of anticorrosive paint comprising epoxysilane and aliphatic epoxy resin)

IT Paints
 (anticorrosive; composition of anticorrosive paint comprising epoxysilane and aliphatic epoxy resin)

IT Polysiloxanes, uses
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (di-Me, Ph silsesquioxane-, methoxy-terminated, Dow Corning 3074; composition of anticorrosive paint comprising epoxysilane and aliphatic epoxy resin)

IT Epoxides
 RL: MOA (Modifier or additive use); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (silyl, Silquest A-186, Silquest A-187; composition of anticorrosive paint comprising epoxysilane and aliphatic epoxy resin)

IT 3388-04-3, β -(3,4-Epoxy cyclohexyl)ethyltrimethoxysilane
 RL: MOA (Modifier or additive use); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (Silquest A-186, silyl epoxide; composition of anticorrosive paint comprising epoxysilane and aliphatic epoxy resin)

IT 3126-63-4, Pentaerythritol tetraglycidyl ether 13236-02-7, Glycerol triglycidyl ether 17557-23-2, Neopentyl glycol diglycidyl ether 30401-87-7, DER 732 317834-64-3
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (aliphatic epoxy resin; composition of anticorrosive paint comprising epoxysilane and aliphatic epoxy resin)

IT 2530-83-8, Silquest A-187
 RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (silyl epoxide; composition of anticorrosive paint comprising epoxysilane and aliphatic epoxy resin)

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE
 (1) Akzo Nobel N V; WO 0031197 A1 2000 CAPLUS
 (2) Ameron Inc; WO 9616109 A1 1996 CAPLUS